

FIG.1

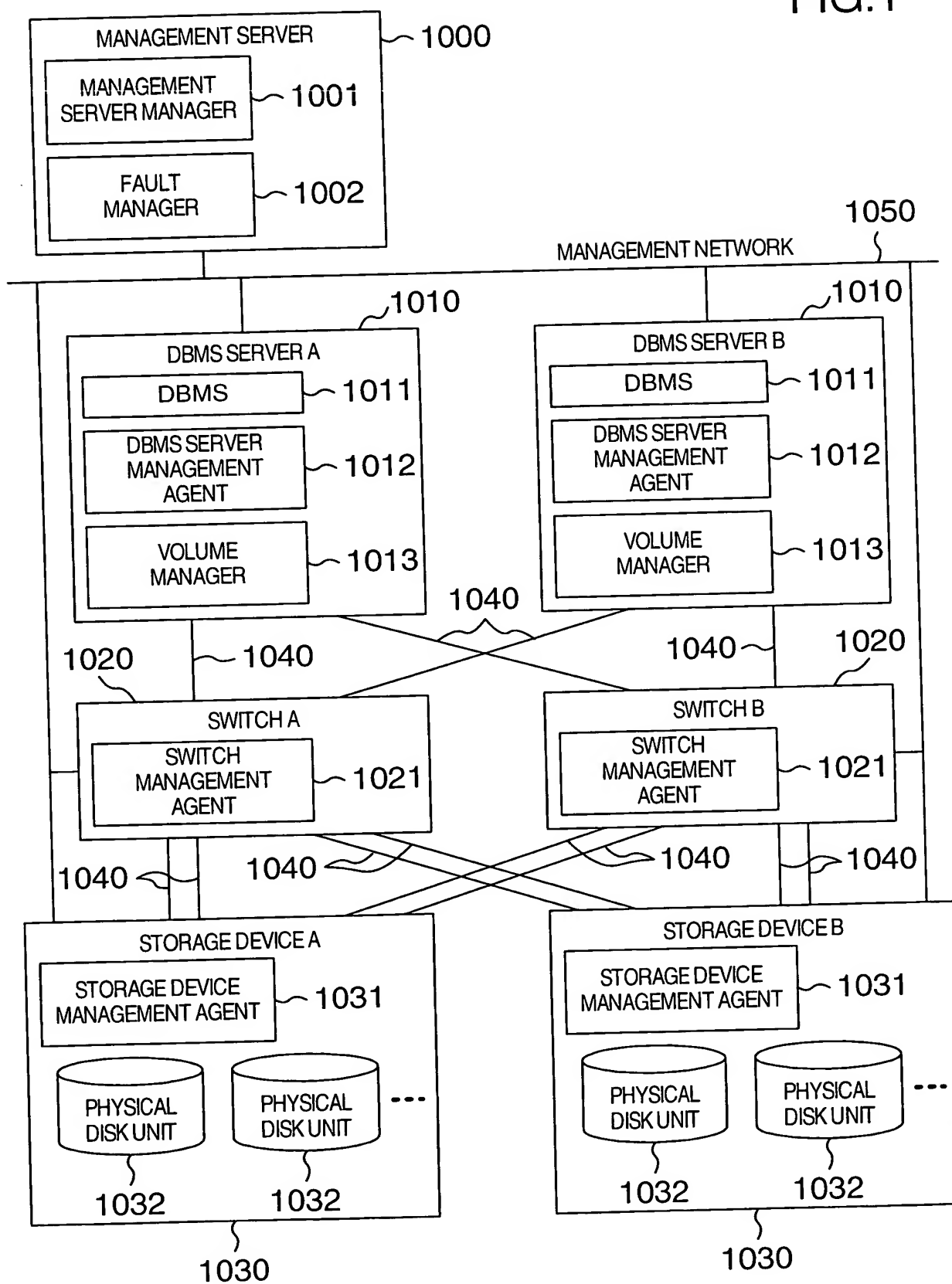


FIG.2

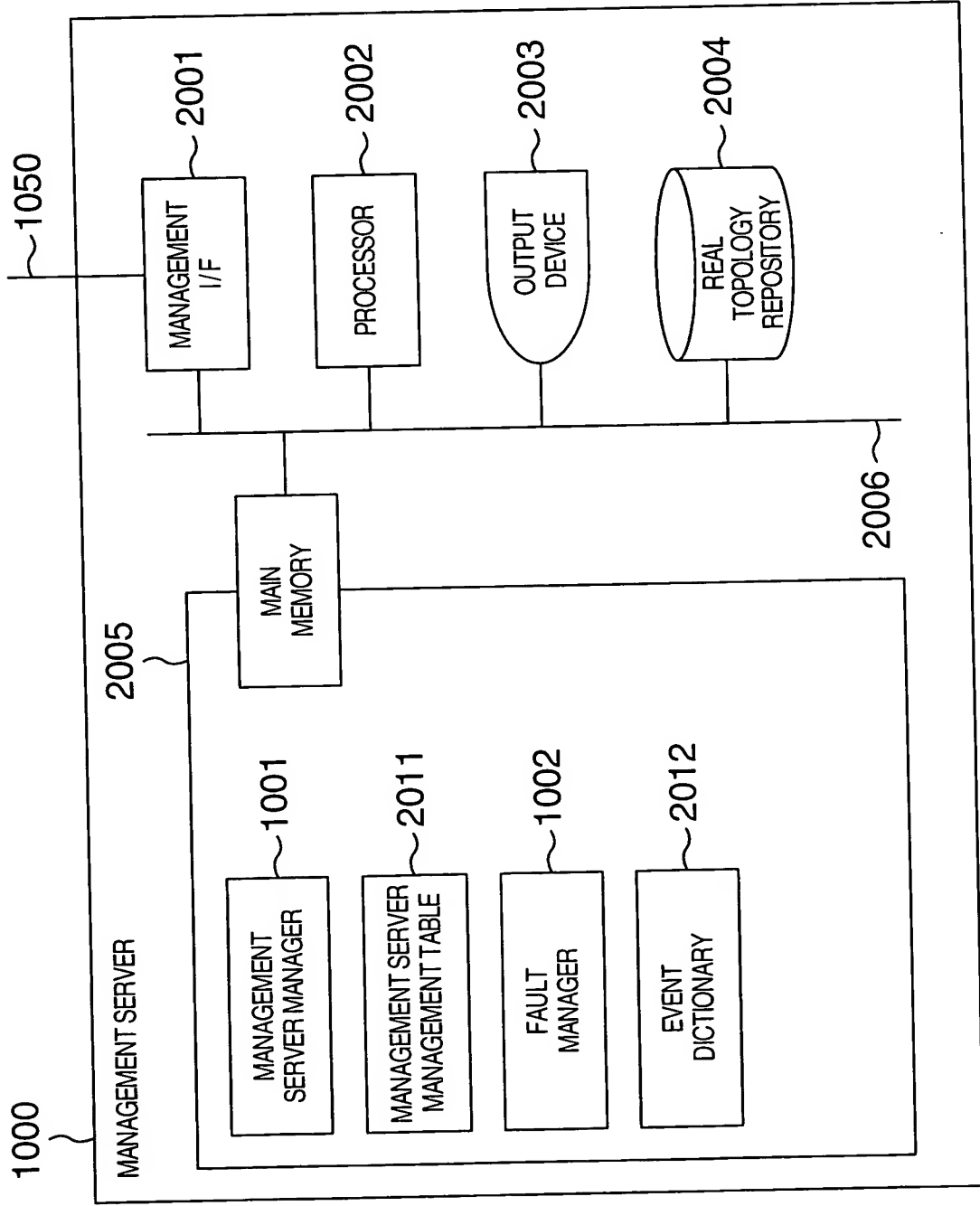


FIG.3

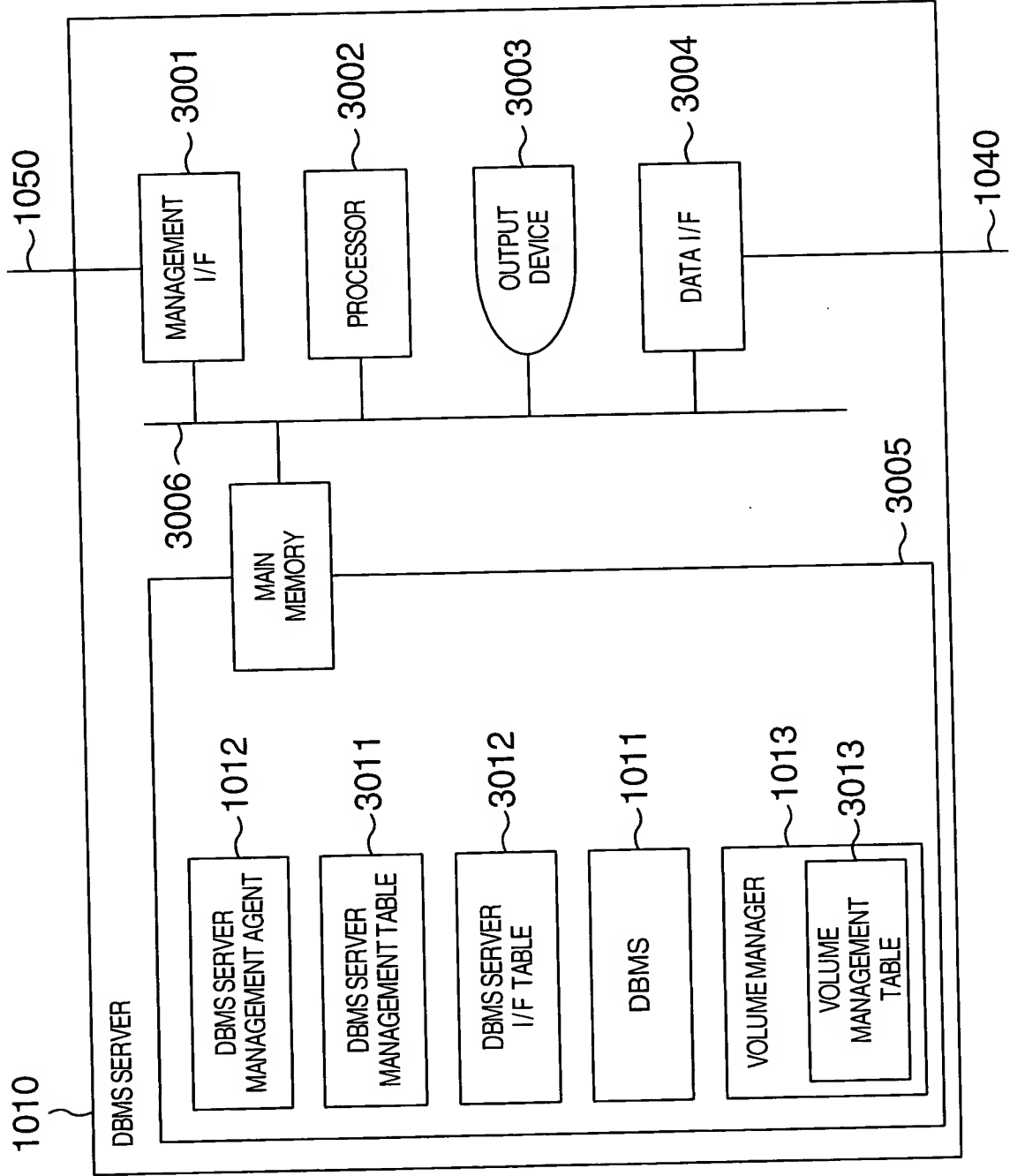


FIG.4

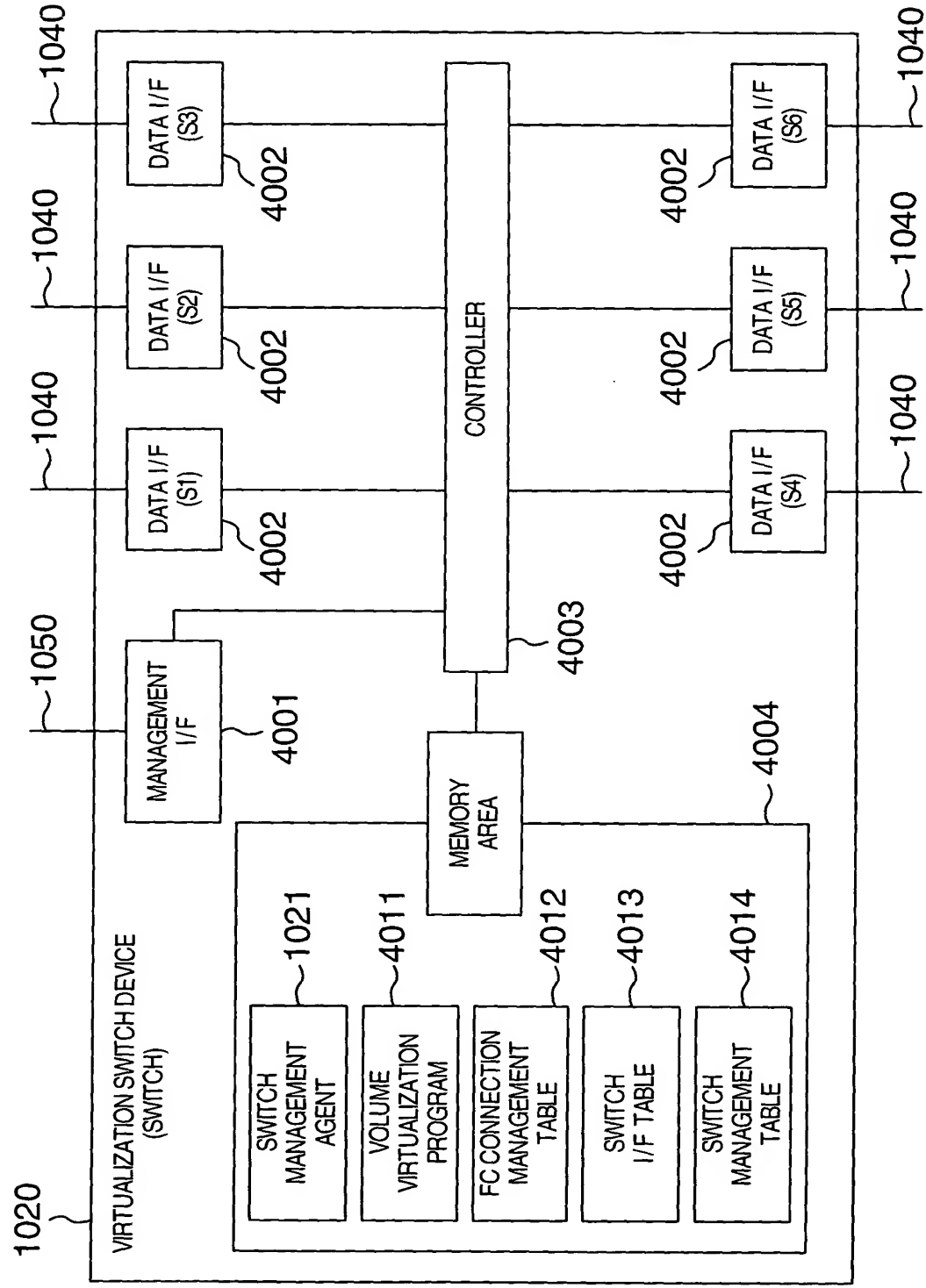


FIG.5

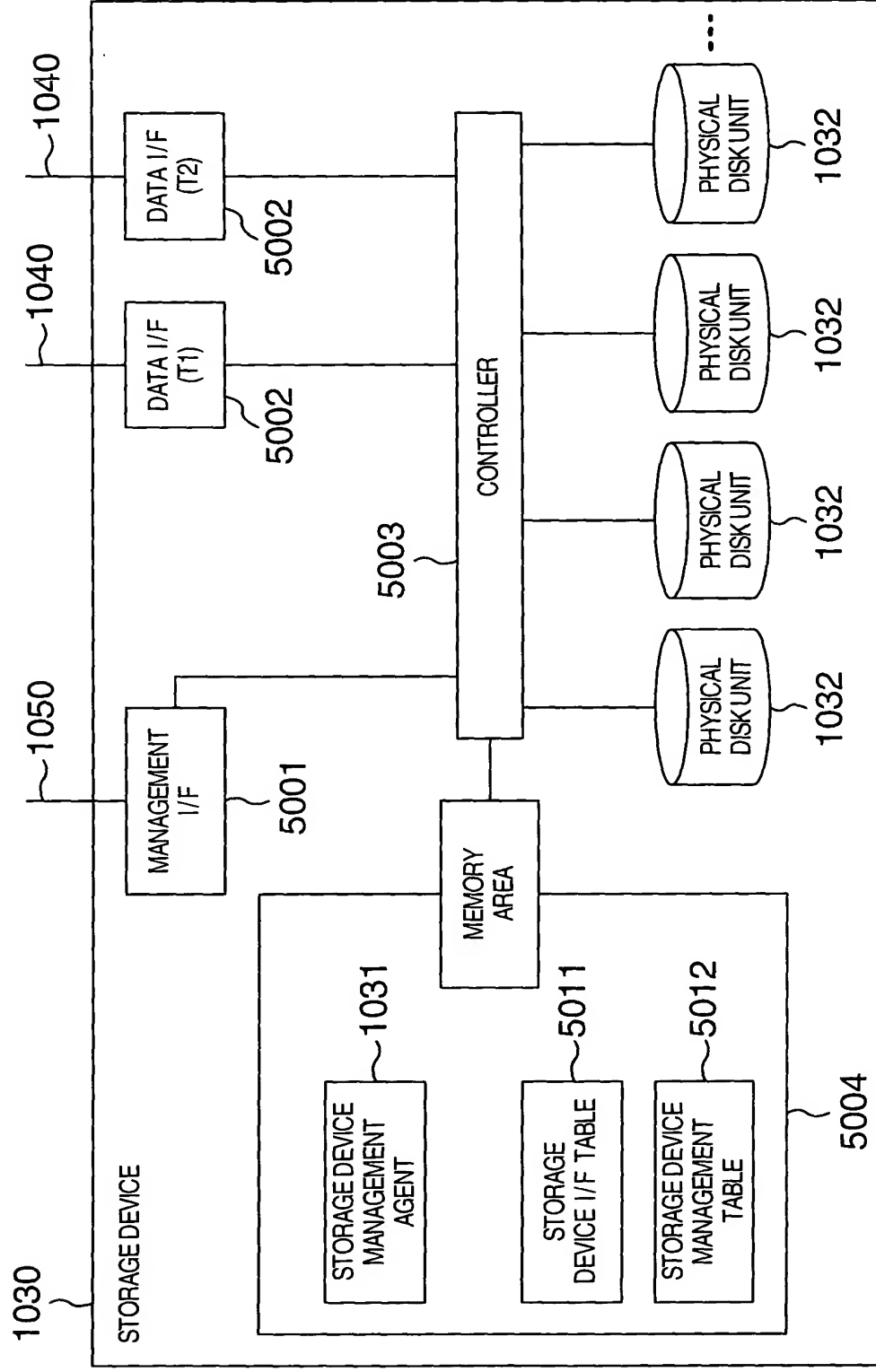


FIG.6

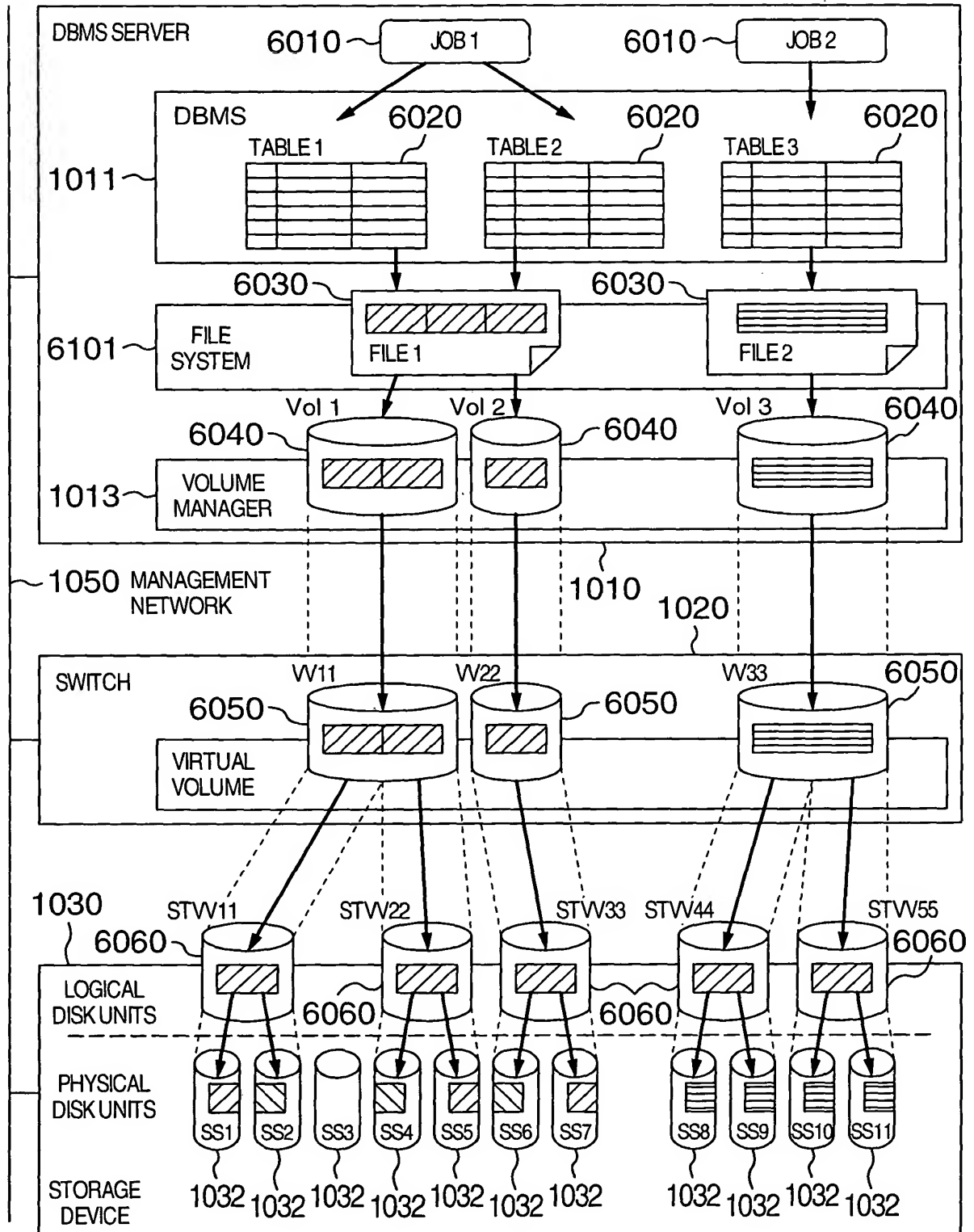


FIG.7

7010	7020
DB-IF	NAME
R1	DB1

3012 DBMS SERVER I/F TABLE

FIG.8

8010	8020	8030	8040	8050	8060	8070	8080
DBMS-ID	JOB ID	TABLE NAME	FILE NAME	REAL VOLUME NAME	DB-IF	SCSI-ID	LUN
DBMS1	Job1	TABLE 1	File1	Vol1	R1	1	1
DBMS1	Job1	TABLE 1	File1	Vol1	R1	2	1
DBMS1	Job1	TABLE 1	File1	Vol2	R1	1	1
DBMS1	Job2	TABLE 1	File2	Vol3	R1	1	1
DBMS1	Job2	TABLE 1	File2	Vol3	R1	2	1

3011 DBMS SERVER MANAGEMENT TABLE

FIG.9

9010 DATA I/F-ID	9020 VIRTUAL DATA I/F ID	9030 SCSI-ID
S1	LSWIF1	1
S1	LSWIF1	2
S2	LSWIF2	1
S3	LSWIF3	1
S3	LSWIF3	2

4013 SWITCH I/F TABLE

FIG.10

10010 DATA I/F	10020 SWITCH SIDE NAME	10030 DESTINATION NAME
S1	Switch1	DB1
S2	Switch2	DB1
S3	Switch3	DB1
S4	Switch4	STRAGE1
S5	Switch5	STRAGE1
S6	Switch6	STRAGE2

4012 FC CONNECTION MANAGEMENT TABLE

FIG.11

VIRTUAL VOLUME			LOGICAL DISK			
VIRTUAL DATA I/F ID	SCSI-ID	LUN	VIRTUAL VOLUME ID	REAL DATA I/F ID	SCSI-ID	LUN
LSWIF1	1	1	VV11	S4	1	1
LSWIF1	1	1	VV11	S4	1	2
LSWIF1	2	1	VV12	S4	2	1
LSWIF1	2	1	VV12	S4	2	2
LSWIF2	1	1	VV21	S5	3	1
LSWIF2	1	1	VV21	S5	3	2
LSWIF3	1	1	VV31	S6	1	1
LSWIF3	1	1	VV31	S6	1	2
LSWIF3	2	1	VV32	S6	2	1
LSWIF3	2	1	VV32	S6	2	2

4014 SWITCH MANAGEMENT TABLE

FIG.12

DATA I/F ID	STORAGE SIDE NAME	VIRTUAL DATA I/F ID	SCSI-ID
T1	STRAGE1	LSTIF1	1
T1	STRAGE1	LSTIF2	2
T1	STRAGE1	LSTIF3	3
T2	STRAGE2	LSTIF4	1
T2	STRAGE2	LSTIF5	2

5011 STORAGE DEVICE I/F TABLE

FIG.13

13110	13120	13100	13130	13140	13210	13200	13220	13230
LOGICAL DISK				PHYSICAL DISK				
VIRTUAL DATA I/F ID	SCSI-ID	LUN	LOGICAL DISK ID	PHYSICAL DISK ID	SCSI-ID	SCSI LUN		
LSTIF1	1	1	STVV11	SS1	1	1		
LSTIF1	1	2	STVV11	SS2	2	2		
LSTIF2	2	1	STVV22	SS4	3	3		
LSTIF2	2	2	STVV22	SS5	4	4		
LSTIF3	3	1	STVV33	SS6	5	5		
LSTIF3	3	2	STVV33	SS7	6	6		
LSTIF4	1	1	STVV44	SS8	7	7		
LSTIF4	1	2	STVV44	SS9	8	8		
LSTIF5	2	1	STVV55	SS10	9	9		
LSTIF5	2	2	STVV55	SS11	10	10		

5012 STORAGE DEVICE MANAGEMENT TABLE

FIG.15

15010	15020	15030	15040	
FAULT CODE	FAILED/RECOVERED LOCATION	IDENTIFIER	FAULT MANAGEMENT ID	
00a1	REAL VOLUME RECOVERED	SS1	F3031	15101
00a2	REAL VOLUME RECOVERED	SS2	F3032	15102
...	
30c1	REAL VOLUME FAILED	SS1	F3031	15103
30c2	REAL VOLUME FAILED	SS2	F3032	15104
...	

2012 EVENT DICTIONARY

FIG.14

2011 MANAGEMENT SERVER MANAGEMENT TABLE																																																	
14100										14200				14300				14320																															
DBMS SERVER						SWITCH				STORAGE DEVICE				STORAGE DEVICE																																			
						VIRTUAL VOLUME				STORAGE DEVICE REAL VOLUME																																							
DBMS-ID	JOB ID	TABLE NAME	FILE NAME	VOLUME MANAGER	DB I/F	SWITCH I/F	VIRTUAL VOLUME ID	VIRTUAL DATA I/F ID	SCSI-ID	LUN	REAL DATA I/F ID	SCSI-ID	LUN	DATA I/F ID	VIRTUAL DATA I/F ID	SCSI-ID	LUN	LOGICAL DISK	PHYSICAL DISK																														
DBMS1	Job1	TABLE1	File1	Vol1	R1	S1	VW11	LSWIF1	001	001	S4	LSTIF1	001	T1	LSTIF1	001	001	STW11	SS1	001																													
DBMS1	Job1	TABLE1	File1	Vol1	R1	S1	VW11	LSWIF1	001	001	S4	LSTIF1	002	T1	LSTIF1	002	001	STW11	SS2	002																													
DBMS1	Job1	TABLE1	File1	Vol1	R1	S1	VW12	LSWIF1	002	001	S4	LSTIF2	001	T1	LSTIF2	001	001	STW22	SS4	003																													
DBMS1	Job1	TABLE1	File1	Vol1	R1	S1	VW12	LSWIF1	002	001	S4	LSTIF2	002	T1	LSTIF2	002	001	STW22	SS5	004																													
...																													
14101						14103				14105				14106				14201				14202				14301				14312				14322				14500											
14102						14104				14106				14201				14203				14214				14222				14301				14312				14314				14321				14323			

FIG.16A

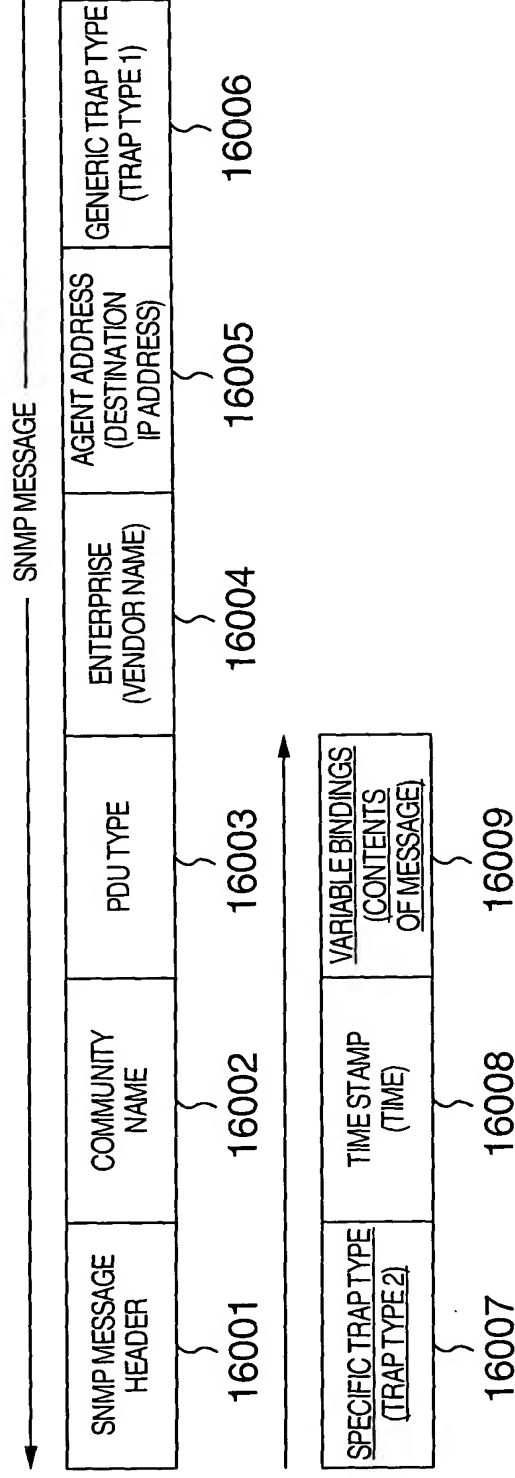


FIG.16B

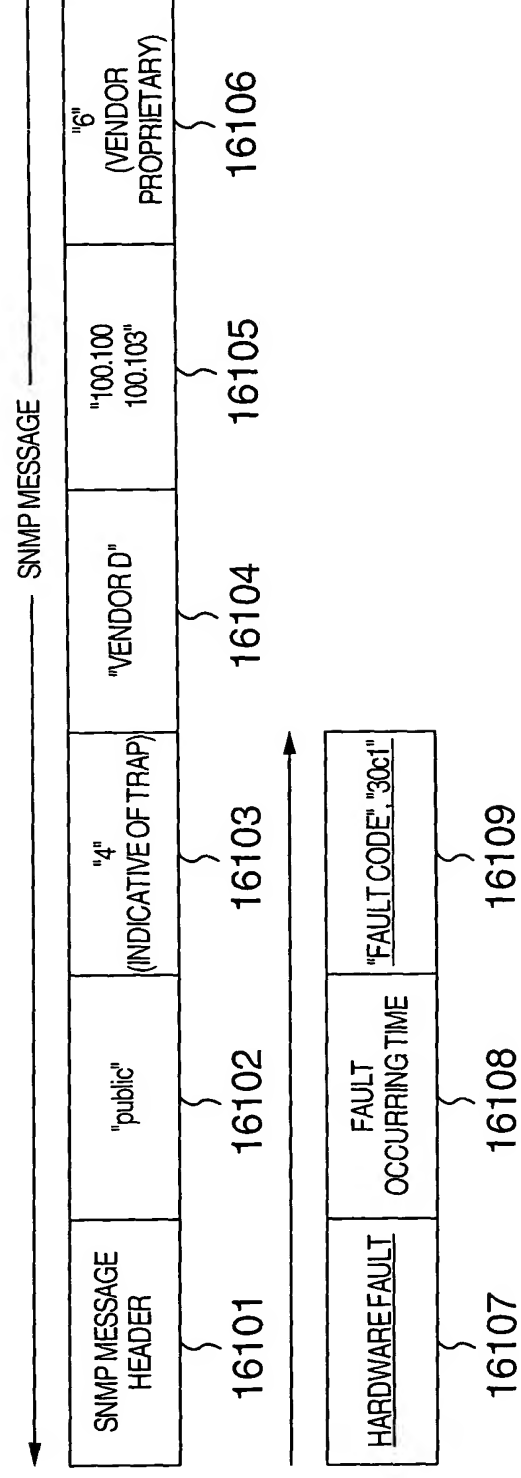


FIG.17

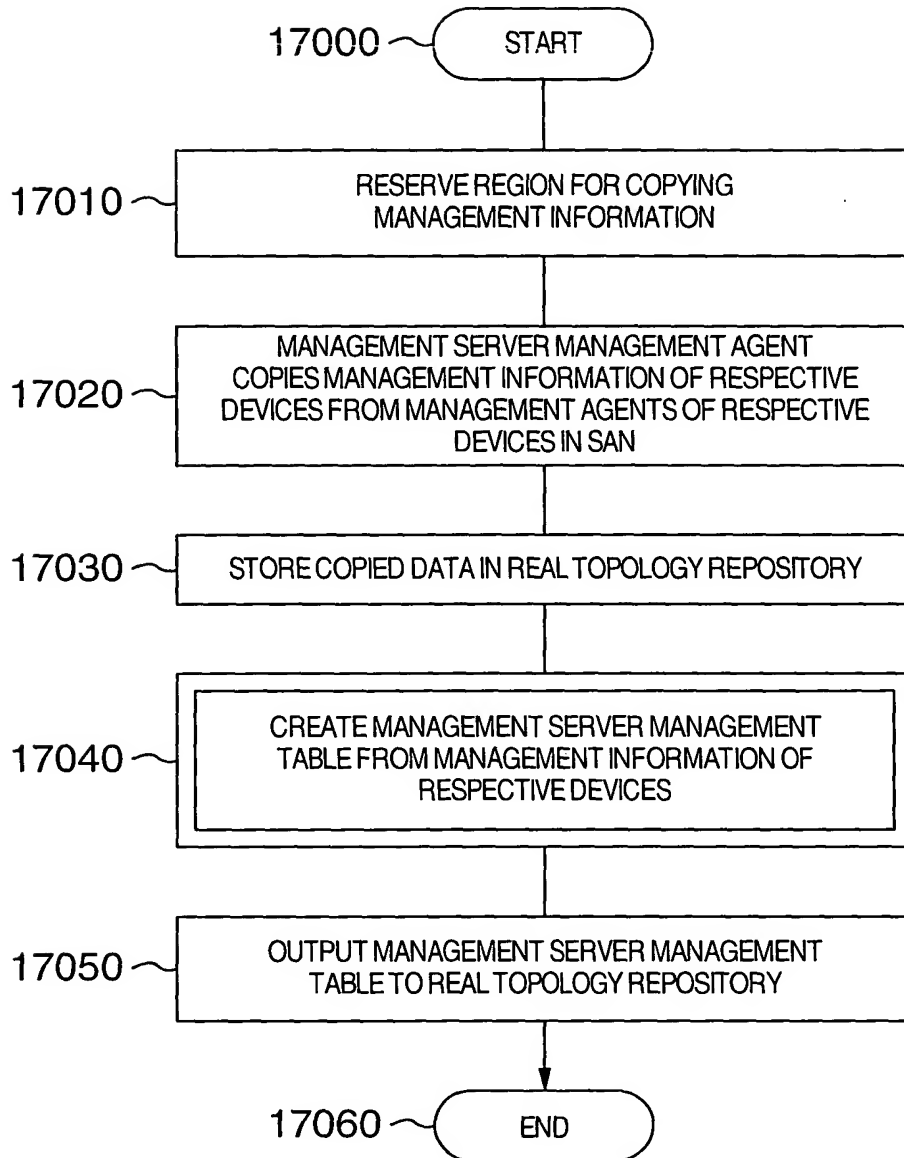


FIG.18

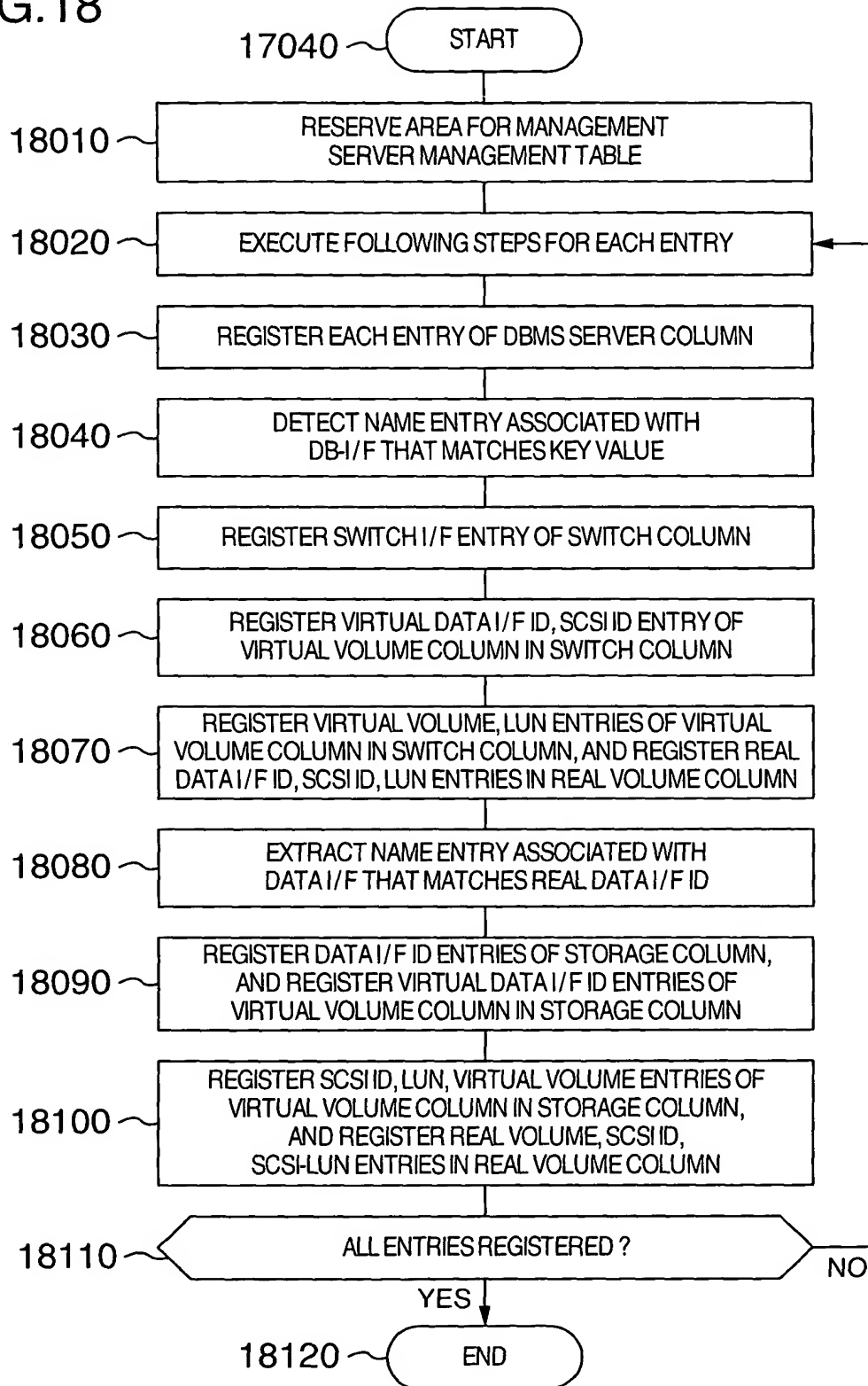


FIG.19

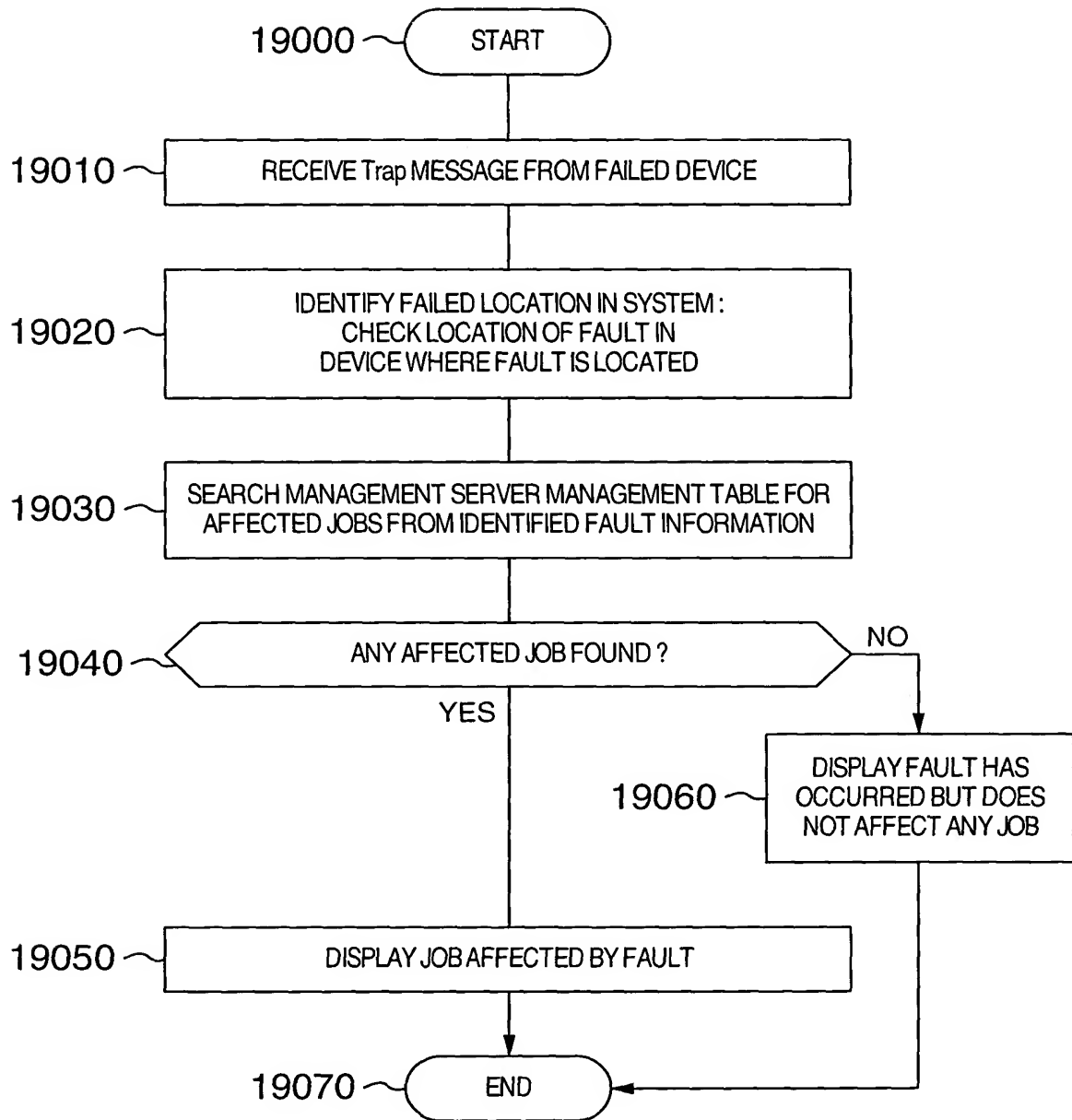


FIG.20

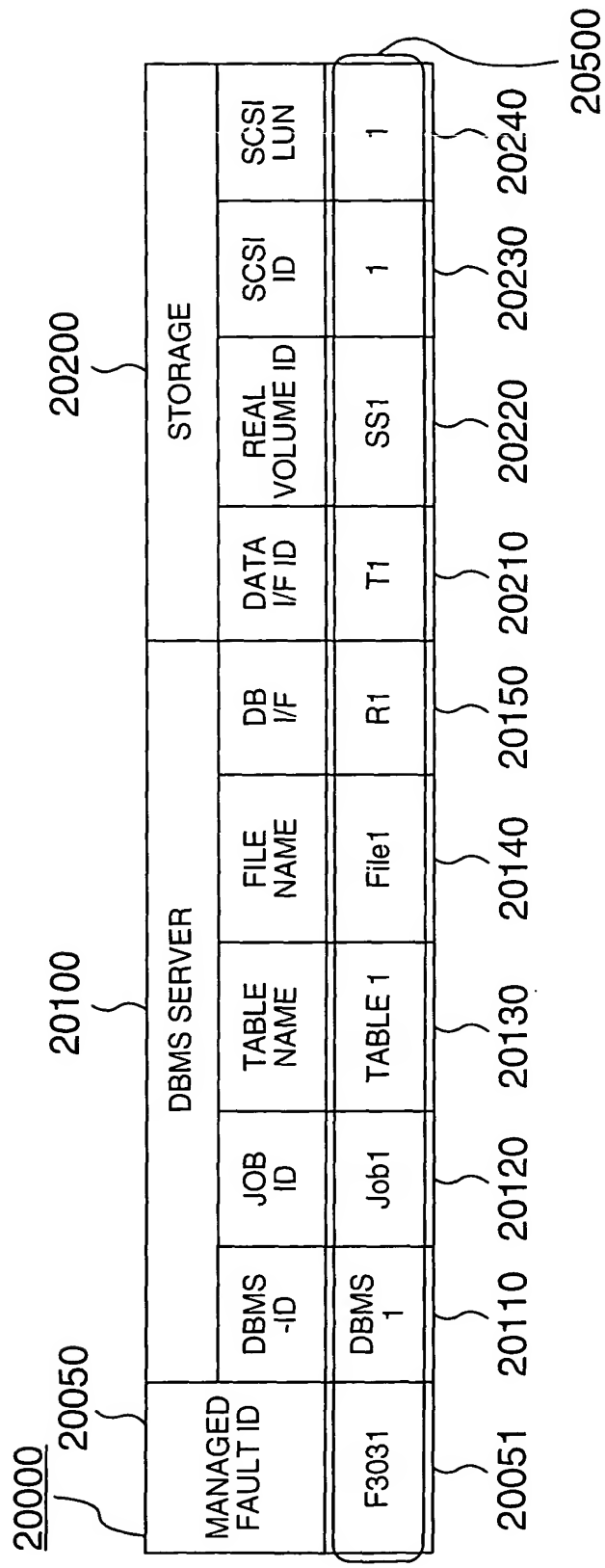


FIG.21

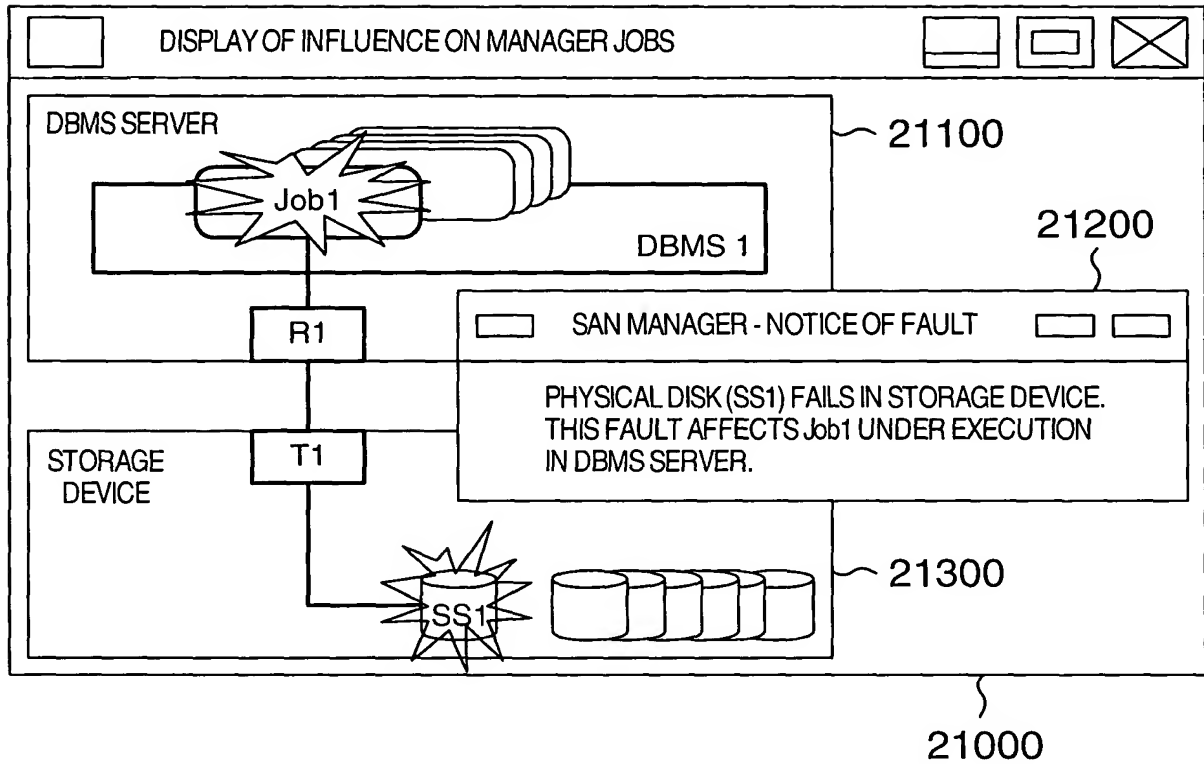


FIG.22

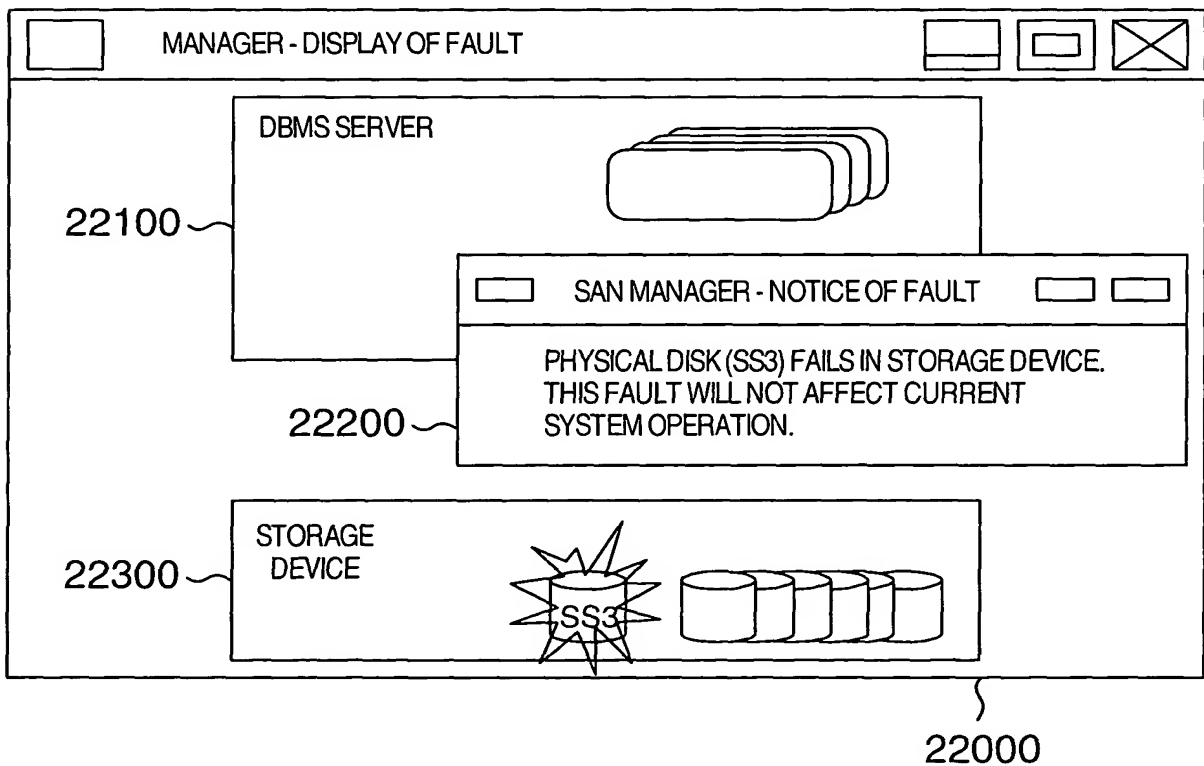


FIG.23

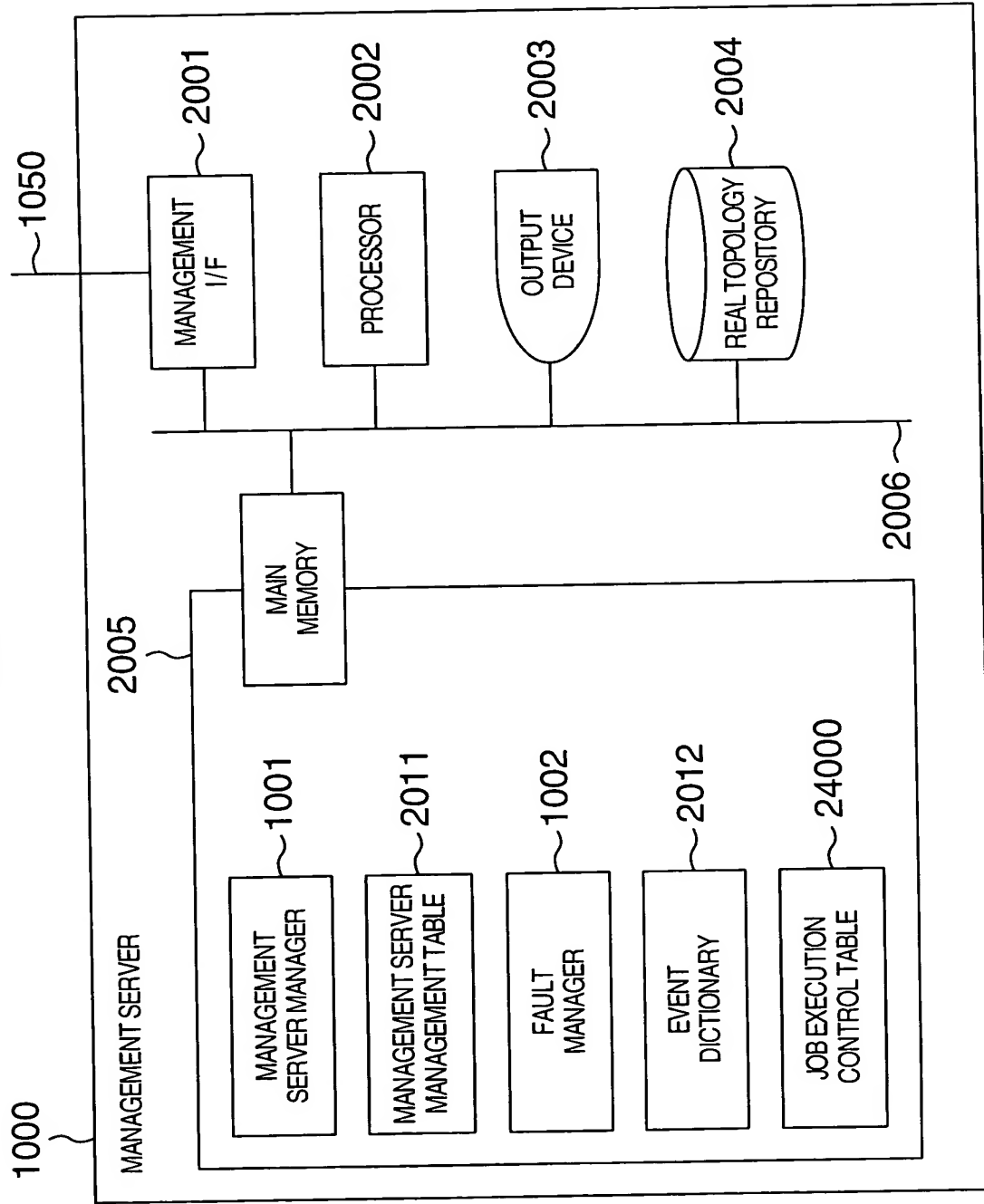


FIG.24

24000 JOB EXECUTION CONTROL TABLE

DBMS -ID	JOB ID	EXECUTION ASSIGNED DEVICE	PRIORITY	PROCESSING METHOD	PROCESSING CONTENTS	CONFIRMATION OF PROCESSING	AUTOMATIC EXECUTION
DBMS 1	Job1	DBMS	1	CONSISTENT	CLOSE	NECESSARY	--
DBMS 1	Job2	DBMS	2	VARIABLE	PAUSE	NOT NECESSARY	YES
...

24010 24020 24030 24040 24050 24060 24070 24080
 24101 24102

FIG.25

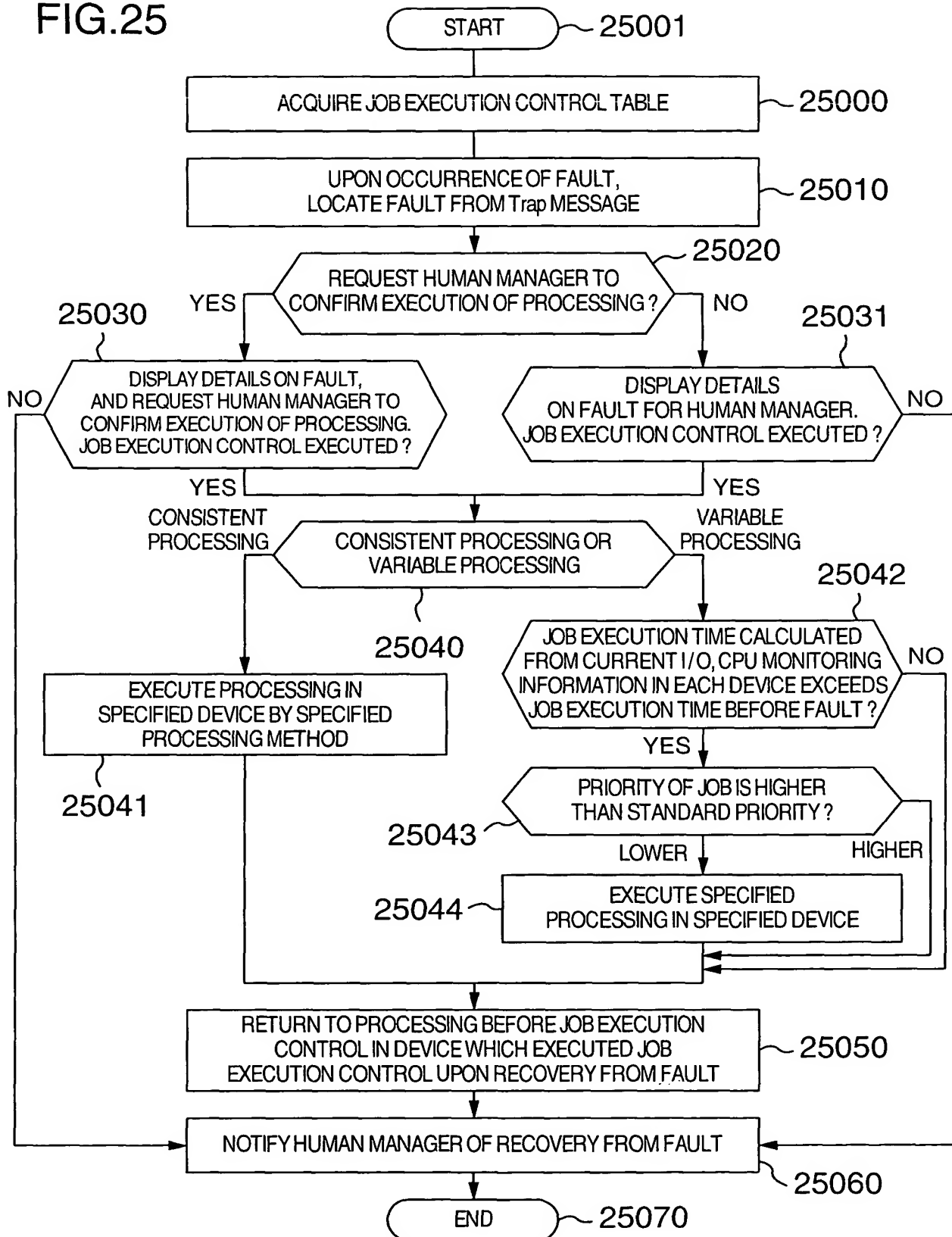


FIG.26

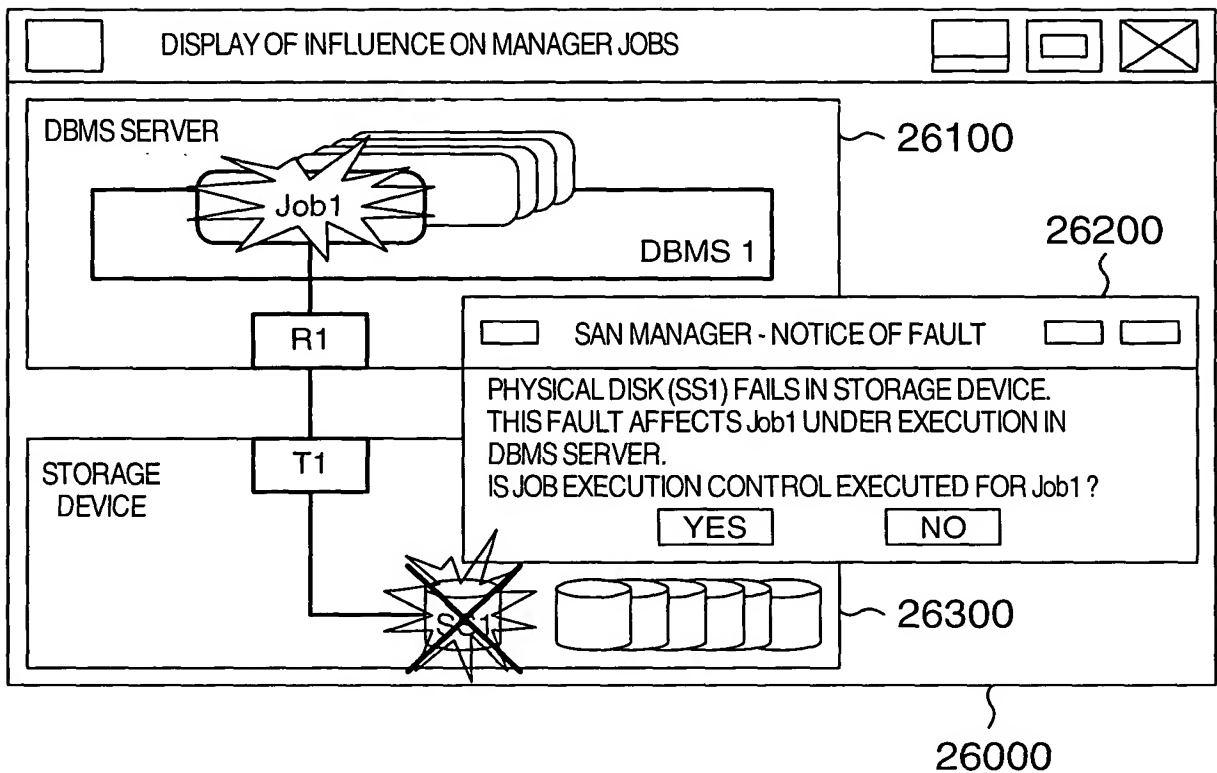


FIG.27

